WEST Search History

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DATE: Monday, June 04, 2007

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT; PLUR=YES; OP=ADJ	
☐	L27	L2 and (((non-proprietary or (non near1 proprietary)) near4 (data near1 link$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link$) or ethernet)	25534
☐	L26	L2 and L25	4
☐	L25	encapsulat$6 same L21	152
☐	L24	L21 same encapsulat$6 same extract$6	1
☐	L23	L22 and L21	1
☐	L22	L14 same encapsulat$6 same extract$6	14
☐	L21	(((non-proprietary or (non near1 proprietary)) near4 (data near1 link$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link$) or ethernet) same L18	5617
☐	L20	((non-proprietary or (non near1 proprietary)) near4 (data near1 link$)) or J1939 or CAN or MODBUS or (serial near1 standard near1 data near1 link$) or ethernet	4783182
☐	L19	(non-proprietary or (non near1 proprietary)) near1 (data near1 link$)	22
☐	L18	(proprietary near1 (data near1 link$)) or PDL$	11151
☐	L17	L16 same link$	18
☐	L16	L13 same l2	69
☐	L15	(data near1 link$) same L13	9
☐	L14	(first near1 protocol$) same (second near1 protocol$)	3383
☐	L13	tunnel$6 same translat$6 same (bridg$6 or gateway$ or switch$6 or router$)	505
☐	L12	(convers$6 or convert$6 or translat$6 or map$6) same J1939 same ((data near1 link$) or PDL$)	21
☐	L11	L2 and L10	22
☐	L10	J1939 same (data near1 link$)	275
☐	L9	L8 same (data near1 link$)	5
☐	L8	L2 same J1939	55
☐	L7	L2 and J1939	86
☐	L6	L2 and L5	14
☐	L5	L4 same J1939	23
☐	L4	(proprietary near1 data near1 link$) or PDL$	11140
☐	L3	L1 same L2	11

☐   L2   protocol$ near4 (convers$6 or convert$6 or translat$6 or map$6)   26019

☐   L1   (J1939 near1 protocol$)   130

END OF SEARCH HISTORY

☐ [Generate Collection] [Print]

L12: Entry 9 of 21   File: PGPB   Sep 4, 2003

DOCUMENT-IDENTIFIER: US 20030167345 A1
TITLE: Communications bridge between a vehicle information network and a remote
system

Summary of Invention Paragraph:
[0014] It is desirable to provide a communications bridge configured to convert any
of one or more engine/vehicle data link communications protocols (e.g., J1939,
J1587/J1708, etc.) to any of one or more computer-based remote system or unit
communications protocols (e.g., RS-232, USB, etc.) to facilitate communications
between any control computer carried by a motor vehicle and a computer-based remote
system or unit. However, it has been discovered through experimentation that
microprocessor-based communication bridges of this type suffer from a number of
drawbacks. For example, due to the multiple-instruction-cycle nature and limited
processing throughput of typical microprocessor-based architectures,
microprocessor-based communication bridges often experience faults or failures when
attempting to convert and transmit multiple-frame data messages. When this occurs,
the message being converted and sent is aborted and therefore must be resent.

Summary of Invention Paragraph:
[0015] What is therefore needed is a communications bridge configured to convert
any of one or more engine/vehicle data link communications protocols (e.g., J1939,
J1587/J1708, etc.) to any of one or more computer-based remote system or unit
communications protocols (e.g., RS-232, USB, etc.), but that does not suffer from
the foregoing drawbacks.

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Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT; PLUR=YES; OP=ADJ	
☐	L13	(first near1 protocol$) same (second near1 protocol$) same L4	17
☐	L12	(proprietary near1 data near1 link$) or ((non-proprietary or (non near1 proprietary)) near1 data near1 link$)	72
☐	L11	MODBUS and L5	1
☐	L10	CAN and L5	280
☐	L9	J1939 and L5	1
☐	L8	(first near1 protocol$) same (second near1 protocol$) same L5	6
☐	L7	(first near1 protocol$) same (second near1 protocol$) same L6	1
☐	L6	(module$ or interface$) same L5	74
☐	L5	(gateway$ or bridg$6 or switch$6 or router$) same L4	281
☐	L4	tunnel$6 same L3	728
☐	L3	encapsulat$6 near1 (protocol$ or message$ or data)	9327
☐	L2	L1 same J1939	1
☐	L1	(encapsulat$6 near1 protocol$)	2533

END OF SEARCH HISTORY